

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/09295

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC(7) : G09G 5/00, 5/08; B25J 15/00, 15/02; G06F 19/00  
 US CL : 345/156, 158; 901/30; 318/560; 700/245  
 According to International Patent Classification (IPC) or to both national classification and IPC.

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 U.S. : 345/156, 158; 901/30, 31, 32 33, 34; 318/560; 700/245, 258; 606/1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,248,960 A (HAMMA) 28 September 1993 (28.09.1993), column 3, lines 15-59; column 7, line 57 - col. 8, line 17.	1, 3, 5, 6, 11
A	US 6,385,509 B2 (DAS et al.) 07 May 2002 (07.05.2002), column 3, ll. 43-50.	1-24
A	US 5,305,429 A (SATO et al.) 19 April 1994 (19.04.1994); entire document.	1-24
A	US 6,394,998 B1 (WALLACE et al.) 28 May 2002 (28.05.2002), entire document.	1-24

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:

\*T

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*X\*

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*E\* earlier application or patent published on or after the international filing date

\*Y\*

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*1\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*A&\*

document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

07 January 2005 (07.01.2005)

03 FEB 2005

Name and mailing address of the ISA/US

Authorized officer

Mail Stop PCT, Attn: ISA/US

Alexander Eisen

Commissioner for Patents

Telephone No. (703) 306-0377

P.O. Box 1450

Alexandria, Virginia 22313-1450

Faxsimile No. (703) 305-5230